



Newsleak

South Carolina DHEC's Drinking Water Newsletter

Volume 15, Issue 3 • July–September 2004

SC DHEC • Bureau of Water

Mapping the Way

System Maps Can Aid In Stage 2 DBPR Implementation

By Jason Hall, Drinking Water Compliance

The *State Primary Drinking Water Regulation*, R.61-58, requires that each public water system maintain an accurate and up-to-date system map. A system map enables water systems to quickly locate water mains and appurtenances for emergency repairs and for general maintenance. A system map can also be used by the water system to accurately plan for improvements or expansions.

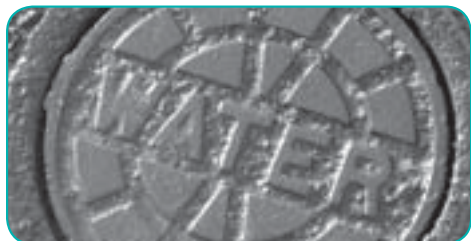
It is important that water systems have an existing system map developed, especially as it relates to the EPA proposed Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR). The final rule is due in Spring of 2005 and will apply to all community water systems (CWSs) and nontransient-noncommunity water systems (NTNCWSs) that add a primary or residual disinfectant other than ultraviolet (UV) light, or receive water that has been disinfected by a primary or residual disinfectant other than UV.

The Stage 2 DBPR requires water systems to meet disinfection byproduct maximum contaminant levels at each

monitoring site in the distribution system. Under the Stage 2 DBPR, water systems will be required to perform an Initial Distribution System Evaluation (IDSE) to identify the locations in their distribution systems with the highest disinfection byproduct concentrations. The locations with the highest concentrations will then be used as the sampling sites for DBP compliance monitoring. Compliance with the maximum contaminant levels (MCL), under Stage 2 DBPR, for total trihalomethanes and haloacetic acids will be calculated for each monitoring location in the distribution system as the locational running annual average (LRAA). This is different from current requirements, which determine compliance based on the calculated running annual average of samples from all monitoring locations across the system.

To meet disinfection byproduct MCLs under the Stage 2 DBPR, some systems may have to rehabilitate or modify portions of their distribution system to eliminate dead end lines. A well-developed system map will allow a water system to be proactive in addressing locations in the distribution system where exceedances for Stage 2 DBPR may occur.

For more information on the Stage 2 DBPR, visit EPA's Web site at <http://www.epa.gov/safewater/stage2/index.html>.



Upcoming Events

Water Environment Association of South Carolina Operator's Conference

October 20-24th

For more information, call 803-540-1888 or visit www.weasc.org

South Carolina Rural Water Association Annual Technical Conference & Exhibit Show

November 15-18th

For more information, call 864-833-5566 or visit www.scrwa.org

Drinking Water Compliance Monitoring staff members, Bruce Bleau and Vivianne Vejdani, will be giving presentations at both conferences. Topics will include: *Disinfection Byproducts Rule Update*, *Update on Arsenic, CCRs, Radionuclides and Lead & Copper*, and *Update on Bacteria Reporting & the Waiver Program*.

Inside this Issue

Planning Effective Water Outreach.....	2
Reporting Disinfection Residuals	2
Permitting Information	3
Outreach Resources.....	3
SRF Program Taking a Survey	4
Fluoridation Grant Program.....	4
Free Training and Reimbursement.....	5
Enforcement Division Report.....	5
Phone Numbers	6



PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

NewsLeak © 2004 SC DHEC
Published by SC DHEC Bureau of Water
Editor: Carol K. Roberts
robertck@dhec.sc.gov
(803) 898-3542

CR-005078 9/04

Getting in Step

Planning An Effective Water Outreach Program

This Workshop Will Benefit:

*Storm Water Managers
Phase II Educators
Environmental Outreach
Coordinators
Outreach Consultants
Watershed Organization Leaders
Outreach Professionals, and
Non Profit Educators*

By Anne Marie Johnson, Water Outreach Coordinator

As a water resource professional tasked with conducting public outreach, have you ever been confronted with a complex message to explain to a diverse audience? Or, you have no designated outreach staff available and limited funding and resources have challenged your ability to get the job done? Doing public education and outreach may sound simple, but many communities and organizations are finding out that doing effective outreach is not that easy.

If you are a Phase II stormwater community, drinking water system, watershed organization, water utility, or any other entity that provides water outreach and education, and these are some of the challenges that face you, then you will want to attend the *South Carolina Getting In Step Workshop*, October 13, 2004 at the Columbia Conference Center, Columbia, SC.

Getting In Step is a nationally recognized and US EPA endorsed, six-step program for designing and conducting effective water outreach. Not only does this program address Phase II minimum control measures on public education and involvement, it also covers the basics of watershed-wide outreach.

Your workshop sponsors, the SC Department of Health and Environmental Control, the SC Soil and Water Conservation Society, the SC Sustainable Universities Initiative, and the Lake and Watershed Association of SC will make sure that you leave with useful resources and information you can put right to work.

Registration forms are available at www.scdhec.gov/water. Registration is \$20. For more information contact Anne Marie Johnson at (803) 898-4187 or e-mail johnsoam@dhec.sc.gov.

Reporting Disinfection Residuals

By Vivanne Vejdani, Drinking Water Monitoring

Beginning January 1, 2004, all surface water systems serving populations under 10,000, and all ground water systems using disinfection, were required to begin submitting the results of their monitoring for disinfection residuals (i.e., chlorine) on DHEC form #2615. These results are checked for compliance with a maximum residual disinfectant level (MRDL) of 1.0 mg/L, based on a running annual average (RAA) of quarterly averages.

Please remember to check your form each month (quarterly, for some systems) for the following before submitting to the Department:

- Your system name **and** number at the top of the form,
- The number of the certified lab performing the analysis,
- The number of samples taken on each day of sampling, as well as their result,
- That the quarter average (QA) is computed at the end of each quarter,
- That the RAA is computed,
- Your system's required number of bacteriological samples (this is used to determine that the correct number of disinfection residual samples have been taken), and
- Your signature at the bottom of the report.



Permitting Information

By Shawn M. Clarke, Manager Drinking Water and Recreational Waters Permitting

Per regulation 61-58, a permit is required “before the construction, expansion or modification of any public water system.” Some examples of when a permit is, or is **not** required, are listed below.

- If you are going to replace the piece of equipment with an identical piece (say an old Stenner 45M5 feed pump with a new Stenner 45M5 feed pump), then you are not modifying the system, and will not need a permit.
- If you are going to replace a piece of equipment with a different model or type of equipment, then you will need a permit.
- If you are planning on upgrading your system's storage, say adding an additional 5,000-gallon hydropneumatic tank, then you will need a permit since the water system will be modified.
- If you plan to modify your chemical treatment system by installing an additional chemical feeder, then you would need a permit.
- If you plan to relocate a water line due to road construction, and you

are going to maintain the same size and same type water line, then you **may** not need a permit. **A layout showing the existing water line and proposed water line should be submitted to the Department, so that a decision can be made.**

- If you plan to relocate a water line from one side of the road to the other because of Department Of Transportation (DOT) roadwork, and you are going to change the size or type of water line, then you will need a permit.
- If you are going to extend a water line into a cul-de-sac to serve 2 or more houses, you will need a permit.

Also, contact your local DHEC Environmental Quality Control District Office before you begin to make changes in your water system. This will allow them to be informed about the changes, and will give them a chance to ask questions about the scope of the work and assess the need for a permit. If you have any questions about this article, please contact Shawn M. Clarke, P.E., at 803-898-3544 or email clarkesm@dhec.sc.gov.



Web sites Offer Outreach Resources

The following DHEC websites provide links to information and resources designed to help local municipal officials and other community members promote water protection activities within their communities.

- Stormwater Phase II—www.scdhec.gov/water/ms4/
- Source Water Protection—www.scdhec.gov/water/html/swpoutreach.html



Assessing The Need

SRF Program Taking a Survey



By Tom McDonough, SRF Program

The State Revolving Fund (SRF) provides low-interest, long-term loans to communities for the construction of drinking water and wastewater treatment and transmission facilities. Money is available in both the Drinking Water and Clean Water (wastewater) SRF programs. A share of these funds may await your drinking water or wastewater project.

When creating and passing legislation authorizing the SRF programs, the United States Congress mandated what are known as infrastructure needs surveys. The dollar needs established by the results of such surveys are used to allot the annual funding to the states for SRF program activities.

The data collection part of the 2003 Drinking Water Infrastructure Needs Survey (DWNS 2003) was recently completed. The SRF Program wishes to thank those drinking water systems who completed and returned their survey questionnaires.

The 2004 Clean Water Needs Survey (CWNS 2004) documenting wastewater infrastructure needs is now under way. DHEC will take the lead in data-gathering for the survey and may make use of telephone calls, e-mail or letters to obtain CWNS documentation from system owners. If you have questions on the CWNS 2004, call Bridget Clarke at (803) 898-4195, or visit www.scdhec.gov/water/html/srf.html.

About South Carolina's Drinking Water Fluoridation Grant Program

By Steve Vassey, Fluoridation Coordinator

According to the Surgeon General and the Centers for Disease Control and Prevention (CDC), the most economical way to provide the benefits of optimal levels of fluoride to all residents of a community has been proven to be through water fluoridation. The purpose of the South Carolina Drinking Water Fluoridation Grant Program is to provide grants to public water systems to assist them in implementing drinking water fluoridation. Funding support for the program is provided from the CDC.

Who is eligible to apply for a fluoridation grant?

Public water systems serving residents of the State of South Carolina that do not currently fluoridate their water supplies at the optimum level of 0.8 to 1.2 parts per million, or that are in need of replacing their existing fluoridation equipment to continue fluoridation, are eligible to apply.

What can the money be used for?

Grant awards will fund the initial purchase, installation, or replacement

of fluoridation equipment for public water systems to include feeders, testing equipment, and storage tanks (if applicable). The grant awards may not be used for the purchase of fluoride chemicals, administrative costs, or other indirect costs. The State Primary Drinking Water Regulation requires that any public water system wishing to implement fluoridation submit plans to DHEC for approval prior to construction.

How will funding be awarded?

Applicants will be evaluated and prioritized on the basis of the completeness of the evaluation; the cost per person to fluoridate the water system; the total percentage (based on the total population served) of rural, low-income and minority population served; and the operational history of the water system.

For more information

If you are interested in applying for a fluoridation grant, please contact Bureau of Water's Fluoridation Coordinator at (803) 898-4214, or by email at vasseyws@dhec.sc.gov.



Small Water Systems Offered Free Training and Reimbursement of Certification Costs

by Cynthia Murphy, SC Environmental Training Center

Three SC state agencies have come together in a cooperative effort to implement a federally funded grant program providing fee reimbursement to water treatment and distribution system operators and would-be operators. The Environmental Training Center (ETC) and Environmental Certification Board (ECB), in cooperation with the Department of Health and Environmental Control (DHEC), are implementing the program, which provides free training, and reimbursement for certification exams and license renewal for operators of eligible systems in the state. The program is exclusively for community and non-transient, non-community public water systems serving 3,300 or fewer persons. They may be investor, privately, or publicly owned water systems.

The ECB will provide reimbursement of initial application and examination fees and two years of license renewal fees to eligible operators for costs incurred

from July 1, 2000 until August 30, 2006. Please contact Amanda Godfrey at 803-896-4430 (e-mail godfrey@llr.sc.gov) for more information on the reimbursement portion of the program.

The ETC is providing regional training workshops in Basic Water Treatment and Basic Water Distribution ("D" & "C" levels) at various locations throughout the state *at no cost to eligible operators*. These workshops will provide exam prep and continuing education, and are structured after the traditional short schools. Online training programs on both these topics are also available, designed to meet the same criteria.

The next training sessions are scheduled for October 11-14 in Lexington, and plans are being made for the Florence-Darlington and upstate regions in early 2005. For more information on the training program, please call the Operator Regional Training line at 803-939-7220, or the SCETC at (803) 778-6656 (e-mail andersoncm@cctech.edu).



Enforcement Division Report

During April 1, 2004-June 30, 2004, the Enforcement Division issued 47 Consent Orders and 8 Administrative Orders. The Water Enforcement Division assessed approximately \$847,066 during the second quarter of 2004.

More information about enforcement activities within DHEC may be found at www.scdhec.gov/eqc/admin/html/eqcmain.html#enforcement.

Enforcement Actions

April 1-June 30, 2004

	*(CA)	(CO)	(AO)	(EO)
Agricultural Facilities		2		
Capacity Use		6		
Dams and Reservoirs				
Drinking Water		7	2	
Groundwater				
NPDES		21		
Pollution Control Act		5	1	
Recreational Waters		1		
Residential Wells				
Stormwater & Sediment Control		5	5	

*Consent Agreement/Consent Order/Administrative Order/Emergency Order

Bureau of Water Telephone Numbers

Main Telephone Number

(803) 898-4300

Main Fax Number

(803) 898-4215

EQC District Offices

APPALACHIA I	(864) 260-5569
Anderson, Oconee	
APPALACHIA II	(864) 241-1090
Greenville, Pickens	
APPALACHIA III	(864) 596-3800
Spartanburg, Cherokee, Union	
CATAWBA	(803) 285-7461
Lancaster, Chester, York	
CENTRAL MIDLANDS	(803) 896-0620
Richland, Lexington, Newberry, Fairfield	
EDISTO SAVANNAH	(803) 641-7670
Aiken, Orangeburg, Barnwell, Bamberg, Allendale, Calhoun	
LOW COUNTRY	(843) 846-1030
Beaufort, Jasper, Colleton, Hampton	
PEE DEE	(843) 661-4825
Florence, Dillon, Marion, Marlboro, Darlington, Chesterfield	
TRIDENT	(843) 740-1590
Charleston, Berkeley, Dorchester	
UPPER SAVANNAH	(864) 223-0333
Greenwood, Abbeville, Laurens, Saluda, Edgefield, McCormick	
WACCAMAW	(843) 448-1902
Horry, Georgetown, Williamsburg	
WATEREE	(803) 778-1531
Sumter, Kershaw, Lee, Clarendon	

For Information Call . . .

Lead & Copper

Leslie Owens (803) 898-4149

Bacteriological Monitoring Program

Idris Liban (803) 898-3573

THM and SWTR compliance

Vivianne Vejdani (803) 898-4156

Radiological compliance

Patrick Metts (803) 898-3794

IOC, VOC, and SOC compliance

Wendi Smith (803) 898-3572

State Safe Drinking Water Act Fees

Susan Alder (803) 898-3554

Backflow Prevention and Cross Connection Control

John Watkins (803) 898-3567

Permitting of sources and treatment

Shawn Clarke (803) 898-3544

Permitting of water distribution lines

Wayne Stokes (803) 898-4159

Status of permit applications

Patty Barnes (803) 898-3550

Disinfectants/Disinfection By-product Rule

Glenn Trofatter (803) 898-4233

SC DHEC Bureau of Water
2600 Bull Street
Columbia, SC 29201
(803) 898-3542
www.scdhec.gov/water

Newsleak